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09/740,040	12/20/2000	James M. Zombek	003636.0100	6195	
7:	7590 12/15/2006 Manelli Denison & Selter, PLLC			EXAMINER	
				GOLD, AVI M	
Attn: William H. Bollman 2000 M Street NW			ART UNIT	PAPER NUMBER	
Suite 700	Suite 700 Washington, DC 20016			2157	
Washington, D				DATE MAILED: 12/15/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Amelication No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Astion Comment	09/740,040	ZOMBEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Avi Gold	2157				
The MAILING DATE of this communication app Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	action is non-final.	esecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-61 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-61 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

This action is responsive to the amendment filed on September 25, 2006. Claim 2 was cancelled. Claims 1 and 3-61 are pending.

Response to Amendment

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3-10, 15, and 17-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gleeson et al., U.S. Patent No. 5,446,736, further in view of Dunlop et al., U.S. Patent No. 6,721,872.

Gleeson teaches the invention substantially as claimed including an apparatus and methods for connecting nodes to wireless networks using standard network protocols (see abstract).

As to claims1, 48, and 55, Gleeson teaches a messaging system, messaging method, comprising:

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a client device to store a client application to be executed by said client device (col. 6, lines 4-41, fig. 1, Gleeson discloses PCs communicating with the network switch);

a server to store a server application to be executed by said server (col. 6, lines 4-41, fig. 1, Gleeson discloses an enterprise network server);

a plurality of wireless networks to communicate messages between said client device and said server; and to support one or more wireless network protocols (col. 3, lines 30-36, col. 6, lines 4-41, fig. 1, Gleeson discloses wireless WANs used for the PCs to communicate with the server using any one of a number of conventional protocols);

a fundamental network protocol to underline each of said one or more wireless network protocols and to include a protocol stack that corresponds substantially to an Open System Interconnection (OSI) model (col. 6, lines 57-61, fig. 2, 5, 6, Gleeson discloses a protocol stack of layers used); and

a communicator to communicate a message between said client application and said server application over a selected wireless network protocol through said protocol gateway independent of said selected wireless network protocol (col. 7, lines 52-63, fig. 2, 5, 6, Gleeson discloses non-standard wireless network protocol layers being used).

Gleeson fails to teach the limitation further including a protocol gateway to encapsulate a fundamental network protocol.

However, Dunlop teaches an interface between a host device and a communication or information network (see abstract). Dunlop teaches the use of a

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reconfigurable network interface architecture including a device to support network operating protocols and an OSI protocol stack (col. 3, lines 14-34, col. 4, lines 5-15).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson in view of Dunlop to use a protocol gateway to encapsulate a fundamental network protocol. One would be motivated to do so because it is efficient for communication to have a device that supports different protocols (col. 2, lines 13-19).

Regarding claims 3, 50, and 57, Gleeson teaches the messaging system and method according to claims 1, 48, and 55, wherein said protocol stack further comprises:

an application layer mapped to layer 7 of said OSI model;
a network layer mapped to layer 3 of said OSI model;
a data link layer mapped to layer 2 of said OSI model; and
a physical layer mapped to layer 1 of said OSI model (fig. 5, 6).

Regarding claims 4, 41, 51, and 58, Gleeson teaches the messaging system and method according to claims 3, 23, 50, and 57, wherein:

said application layer comprises an interface between a client application and a simple network transport layer (SNTL); and

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said client application is adapted to send and receive messages across said plurality of wireless networks without having any information of a communication implementation (col. 7, 8; fig. 5, 6).

Regarding claims 5, 52, and 59, Gleeson teaches the messaging system and method according to claims 4, 41, and 58, wherein:

said client application is selected from a group consisting of one or more e-mail applications, one or more file transfer applications, and a plurality of end user applications (col. 11, line 43 - col. 12, line 55, Gleeson discloses client software).

Regarding claims 6, 53, and 60, Gleeson teaches the messaging system and method according to claims 4, 50, and 57, wherein:

said network layer comprises means for providing network protocol layer functionality and hiding the details of said functionality from a simple network transport layer (SNTL) (fig. 5, 6).

Regarding claims 7, 54, and 61, Gleeson teaches the messaging system and method according to claims 6, 53, and 60, wherein:

said network layer comprises an Internet Protocol (IP) (fig. 5, 6; col. 11, lines 44-58).

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Regarding claim 8, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are together adapted to comply with a public switch telephone network protocol (col. 10, lines 20-25, Gleeson discloses the use of various networks).

Regarding claim 9, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are together adapted to comply with a cellular digital packet data protocol (col. 10, lines 20-25).

Regarding claim 10, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are together adapted to comply with a Mobitex protocol (col. 10, lines 20-25).

Regarding claim 15, Gleeson teaches the messaging system according to claim 3, wherein:

said data link layer and said physical layer are adapted to comply with said selected wireless network protocol (col. 10, lines 20-25).

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Regarding claim 17, Gleeson teaches the messaging system according to claim 4, wherein:

said SNTL includes a connectionless UDP-like transport protocol having substantially all features and advantages of TCP (fig. 5, 6).

Regarding claim 18, Gleeson teaches the messaging system according to claim 17, wherein:

said features are selected from a group comprising message segmentation, message segment reassembly, message retries, and message duplication (fig. 12A – fig. 15).

Regarding claim 19, Gleeson teaches the messaging system according to claim 17, wherein:

said SNTL includes a transport header having a preselected width (fig. 12A – fig. 15).

Regarding claim 20, Gleeson teaches the messaging system according to claim 19, wherein:

said preselected width comprises between four to six bytes (fig. 12A - fig. 15).

Regarding claim 21, Gleeson teaches the messaging system according to claim 19, further comprising:

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a single segment message header (fig. 12A – fig. 15).

Regarding claim 22, Gleeson teaches the messaging system according to claim 19, further comprising:

a multiple segment message header (fig. 12A - fig. 15).

Regarding claim 23, Gleeson teaches the messaging system according to claim 19, wherein said transport header further comprises:

a first field adapted to indicate a version number of a segment header (pg. 47, Gleeson discloses a ver field);

a second field adapted to indicate a message identification value, adapted to discard segment/message duplications and to match acknowledgments with messages;

a third field adapted to indicate protocol information;

a fourth field adapted to indicate a total number of bytes contained in a message segment to be sent including said segment header; and

a fifth field adapted to indicate a number of each said message segment (fig. 12A – fig. 15).

Regarding claim 24, Gleeson teaches the messaging system according to claim 23, wherein:

said first field comprises two bits (fig. 12A – fig. 15).

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Regarding claim 25, Gleeson teaches the messaging system according to claim 23, wherein:

said first field comprises bit 0 and bit 1 of a first word in said segment header (fig. 12A – fig. 15).

Regarding claim 26, Gleeson teaches the messaging system according to claim 23, wherein:

said first field comprises a value of from 0 to 3 (fig. 12A - fig. 15).

Regarding claim 27, Gleeson teaches the messaging system according to claim 23, wherein:

said second field comprises thirteen bits (fig. 12A - fig. 15).

Regarding claim 28, Gleeson teaches the messaging system according to claim 23, wherein:

said second field comprises bits 2 through 14 of a first word in said segment header (fig. 12A – fig. 15).

Regarding claim 29, Gleeson teaches the messaging system according to claim 23, wherein:

said second field comprises a value of from 0 to 8,192 (fig. 12A - fig. 15).

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Regarding claim 30, Gleeson teaches the messaging system according to claim 23, wherein:

said third field comprises five bits (fig. 12A - fig. 15).

Regarding claim 31, Gleeson teaches the messaging system according to claim 23, wherein:

said third field comprises bits 15 through 19 of a first word in said segment header (fig. 12A – fig. 15).

Regarding claim 32, Gleeson teaches the messaging system according to claim 23, wherein:

bit 19 of said third field comprises a value indicative of message segmentation (fig. 12A – fig. 15).

Regarding claim 33, Gleeson teaches the messaging system according to claim 32, wherein:

bit 19 comprises a value of 0 when said message is not segmented (fig. 12A – fig. 15).

Regarding claim 34, Gleeson teaches the messaging system according to claim 32, wherein:

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bit 19 comprises a value of 1 when said message is segmented (fig. 12A – fig. 15).

Regarding claim 35, Gleeson teaches the messaging system according to claim 23, wherein:

bit 16 of said third field comprises a value indicative of a message type (fig. 12A – fig. 15).

Regarding claim 36, Gleeson teaches the messaging system according to claim 35, wherein:

bit 16 comprises a value of 0 when said message includes a positive acknowledgment (fig. 12A – fig. 15).

Regarding claim 37, Gleeson teaches the messaging system according to claim 35, wherein:

bit 16 comprises a value of 1 when said message includes a negative acknowledgment (fig. 12A – fig. 15).

Regarding claim 38, Gleeson teaches the messaging system according to claim 23, wherein:

bit 15 of said third field comprises a message indicator (fig. 12A - fig. 15).

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Regarding claim 39, Gleeson teaches the messaging system according to claim 38, wherein:

bit 15 comprises a value of 0 when said message is an application message (fig. 12A – fig. 15).

Regarding claim 40, Gleeson teaches the messaging system according to claim 38, wherein:

bit 15 comprises a value of 1 when said message is a system message (fig. 12A – fig. 15).

Regarding claim 41, Gleeson teaches the messaging system according to claim 23, wherein:

said fourth field comprises twelve bits (fig. 12A - fig. 15).

Regarding claim 42, Gleeson teaches the messaging system according to claim 41, wherein:

said fourth field comprises bits 20 through 31 of a second word in said segment header (fig. 12A – fig. 15).

Regarding claim 43, Gleeson teaches the messaging system according to claim 42, wherein:

said fourth field comprises a value of from 4 to 4,096 (fig. 12A - fig. 15).

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Regarding claim 44, Gleeson teaches the messaging system according to claim 23, wherein:

said fifth field comprises eight bits (fig. 12A - fig. 15).

Regarding claim 45, Gleeson teaches the messaging system according to claim 44, wherein:

said fifth field comprises bits 0 through 7 of a third word in said segment header (fig. 12A – fig. 15).

Regarding claim 46, Gleeson teaches the messaging system according to claim 44, wherein:

said fifth field comprises a value of from 2 to 255 (fig. 12A - fig. 15).

Regarding claim 47, Gleeson teaches the messaging system according to claim 23, wherein:

said fifth field is adapted to re-order a plurality of message segments into a single complete message (fig. 12A – fig. 15).

Regarding claims 49, and 56, Gleeson teaches the messaging system and method according to claims 48, and 55, wherein:

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a simple network transport layer (SNTL) that maps to layer 4 of said OSI model (fig. 5, 6).

3. Claims 11-14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gleeson and Dunlop further in view of Meyer et al., U.S. Patent No. 6,778,099.

Gleeson teaches the invention substantially as claimed including an apparatus and methods for connecting nodes to wireless networks using standard network protocols. Dunlop teaches the invention substantially as claimed including an interface between a host device and a communication or information network.

As to claim 11, Gleeson and Dunlop teach the method of claim 3.

Gleeson and Dunlop fail to teach the limitation further including wherein said data link layer and said physical layer are together adapted to comply with a RIM protocol.

However, Meyer teaches automatic equipment and systems for remote reading of utility meters via a wireless area network communications module (see abstract).

Meyer teaches the use of a RIM protocol (col. 6, lines 17-20).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson and Dunlop in view of Meyer to use a RIM protocol. One would be motivated to do so because it allows for the use of more protocols to transfer data.

As to claim 12, Gleeson and Dunlop teach the method of claim 3.

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Gleeson and Dunlop fail to teach the limitation further including wherein said data link layer and said physical layer are together adapted to comply with an ARDIS protocol.

However, Meyer teaches the use of an ARDIS protocol (col. 6, lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson and Dunlop in view of Meyer to use an ARDIS protocol.

As to claim 13, Gleeson and Dunlop teach the method of claim 3.

Gleeson and Dunlop fail to teach the limitation further including wherein said data link layer and said physical layer are adapted to comply with a GPRS protocol.

However, Meyer teaches the use of other packet wireless data networks and packets transmitted and received over a radio modem (col. 6, lines 1-5, col. 7, lines 21-26).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson and Dunlop in view of Meyer to use a GPRS protocol.

As to claim 14, Gleeson and Dunlop teach the method of claim 3.

Gleeson and Dunlop fail to teach the limitation further including wherein said data link layer and said physical layer are adapted to comply with a GSM protocol.

However, Meyer teaches the use of a GSM protocol (col. 6, lines 1-5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson and Dunlop in view of Meyer to use a GSM protocol.

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As to claim 16, Gleeson and Dunlop teach the method of claim 3.

Gleeson and Dunlop fail to teach the limitation further including an ARDIS protocol, a RIM protocol, a GPRS protocol, and a GSM protocol.

However, Meyer teaches the use of an ARDIS protocol, a RIM protocol, a GPRS protocol, and a GSM protocol (col. 6, lines 1-5, 17-20; col. 7, lines 21-26).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Gleeson and Dunlop in view of Meyer to use an ARDIS protocol, a RIM protocol, a GPRS protocol, and a GSM protocol.

Response to Arguments

4. Applicant's arguments filed September 25, 2006 have been fully considered but they are not persuasive.

Regarding the argument to claims 1, 48, and 55, the applicant argues that the reference, Dunlop, does not disclose a protocol gateway to encapsulate a fundamental network protocol. The examiner respectfully disagrees, as seen in, col. 3, lines 14-34 and col. 4, lines 5-15, there is a reconfigurable network interface which acts a protocol gateway and encapsulates operating protocols and an OSI protocol stack, which is a fundamental network protocol.

5. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by

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combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, it is found in the Dunlop reference and cited in the office action.

6. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). The applicant states that, for claims 11-14 and 16, Meyers fails to disclose a protocol gateway to encapsulate a fundamental network protocol; this is found in the combination of Gleeson and Dunlop.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Pat. No. 6,304,564 to Monin et al.
 - U.S. Pat. No. 6,718,384 to Linzy
 - U.S. Pat. No. 6,628,965 to LaRosa et al.
 - U.S. Pat. No. 6,721,779 to Maffeis
 - U.S. Pat. No. 6,874,018 to Wu
 - U.S. Pat. No. 5,970,059 to Ahopelto et al.
 - U.S. Pat. No. 5,673,322 to Pepe et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Avi Gold whose telephone number is 571-272-4002. The examiner can normally be reached on M-F 8:00-5:30 (1st Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Avi Gold

Patent Examiner

Art Unit 2157

AMG

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